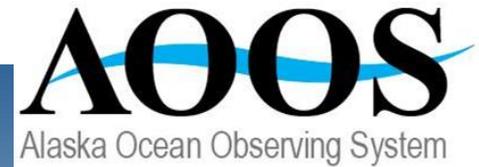


Closing Remarks

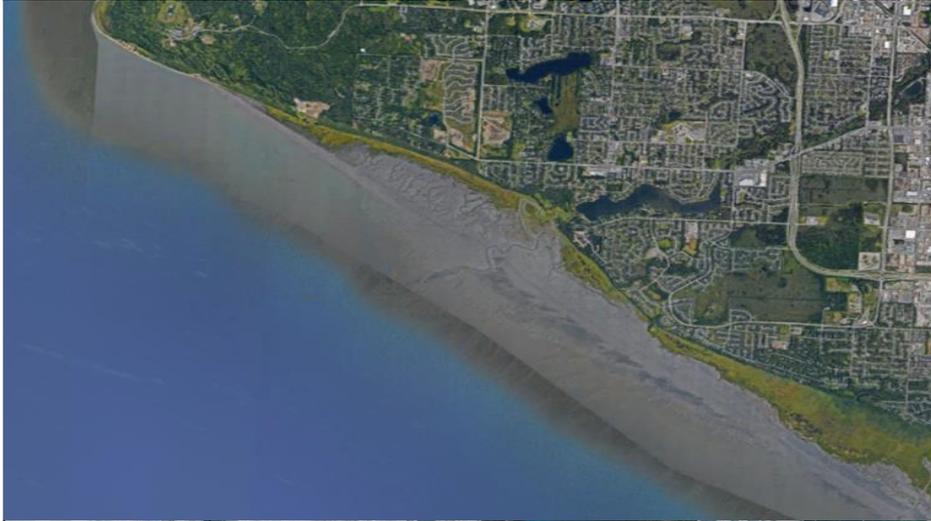
Alaska Coastal Mapping Summit



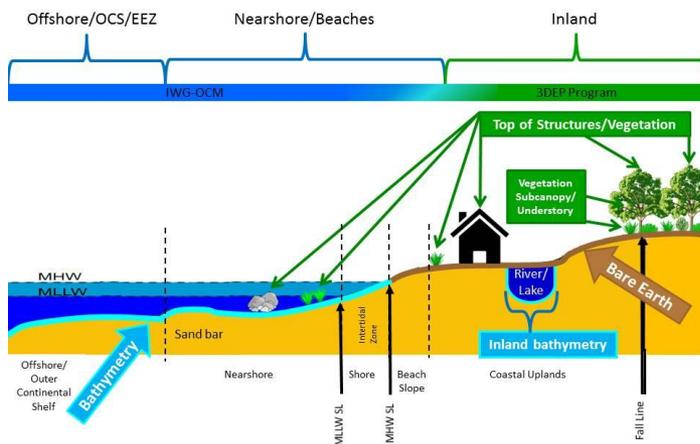
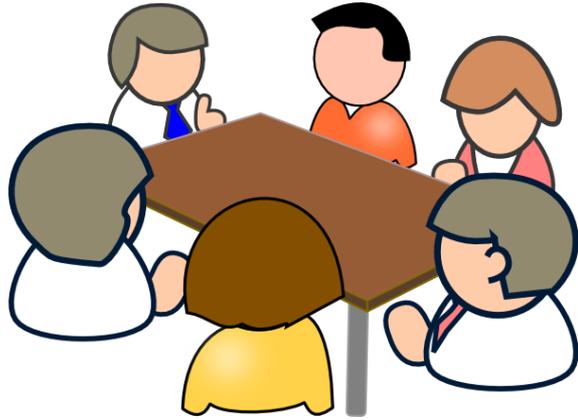
**Marta Kumle, Coastal Mapping Strategist
Alaska Ocean Observing System
Alaska Department of Natural Resources
*February 9, 2018***



COASTAL MAPPING STRATEGY



COASTAL MAPPING STRATEGIST



STRATEGY DOCUMENT

Goal:



Create an achievable plan to map AK's Coastal Zone

(approx. from <30 m deep to 1 km inland)

- Long term strategy for prioritizing coastal mapping activities
- Selective/tiered data specifications
- Appropriate to physical environment
- Current and future area uses
- Technological/logistical feasibility
- Versionable document

MULTIDISCIPLINARY APPROACH

Data Types:

Bathymetry

Shoreline Delineation

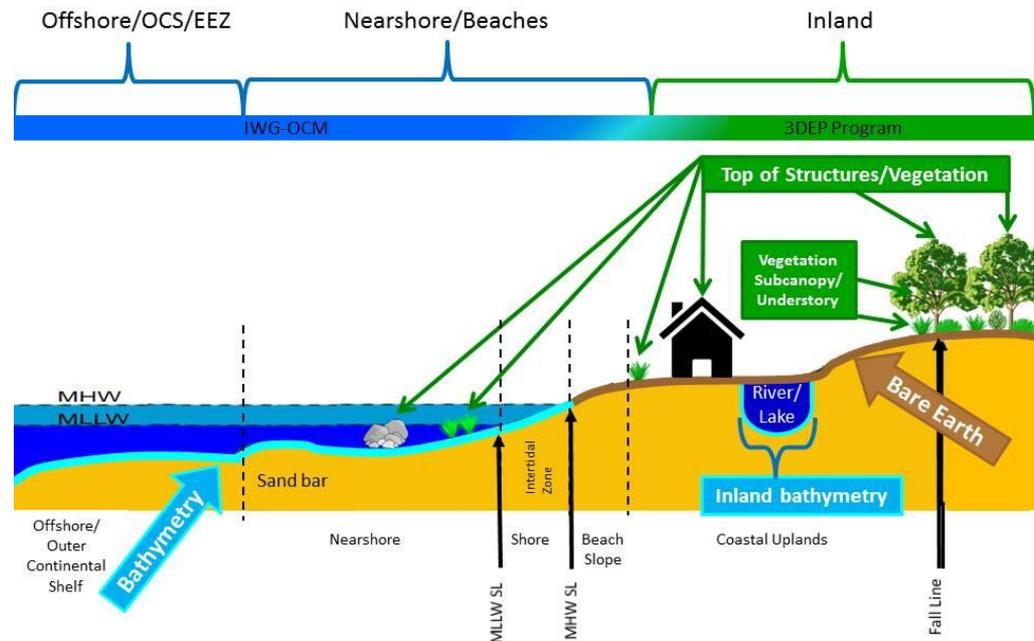
Nadir/Oblique Imagery/Video

IFSAR Topography

Lidar

Photogrammetry

New Technologies



MULTIPURPOSE APPROACH

Products:

flood mapping
coastal navigation
coastal hazards
coastal change
habitat mapping

Enable

Classifications:

vegetation
habitat
hazard
geomorphic

Industry

Applications:

infrastructure
engineering
nearshore navigation
project planning



Image courtesy of Shorezone: Tigvariak Island, Beaufort Sea, North Slope.

SPECIFICATIONS MATRIX

- **Data Acquisition (as technology neutral as possible)**
 - leverage new technologies
 - resources already in Alaska
- **Elevation, Bathymetry, Imagery**
- **DEM, DSM, Photomosaics, Land Cover**
- **Refresh Rates**
- **Horizontal & Vertical Control**
- **Water Levels, Tidal Fluctuations**

	IHO Bathy	Lidar: Q1, Q2, Q3	Imagery
IHO Bathymetry	✓✓✓	✓	✓x
Lidar: Q1, Q2, Q3		✓✓✓	✓
Imagery			✓✓✓

LOCATION SPECIFIC

What specifications are needed where?

Match feasibility & capacity

Account for:

- **population/communities**
- **industry activity**
- **natural resources**
- **hunting/fishing**
- **habitat**
- **geomorphic processes**
- **storm surges & flooding**



2017 → 2030

what is feasible to accomplish?

USER GROUPS

Alaska Geospatial Council (AGC)

Alaska Mapping Executive Committee (AMEC)

Agency Liaisons

Native Corporations

Non-Governmental Organizations

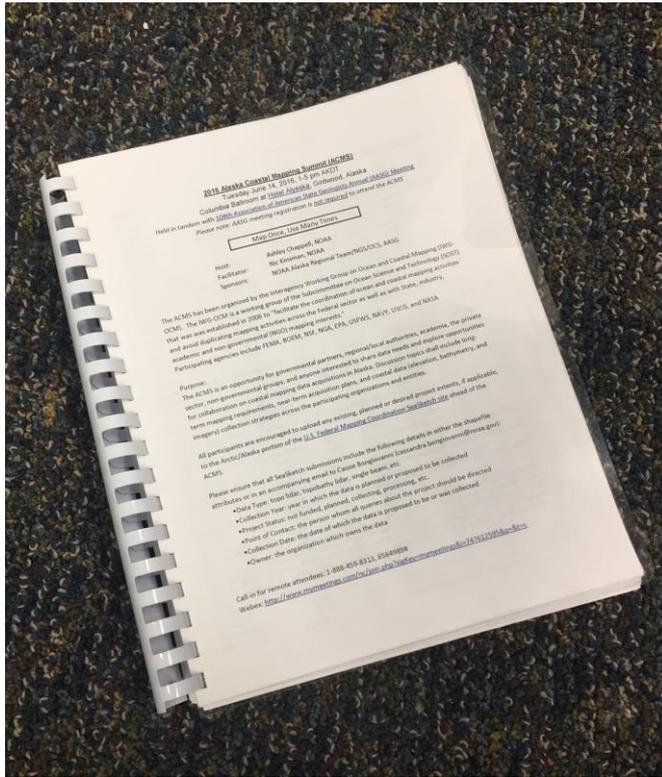
Private Sector

Academic Community

Suggestions?



NEXT STEPS



Conference Report

- executive summary
- send me feedback

Hydrographic Service Review Panel (HSRP) & Alaska Mapping Executive Committee (AMEC)

- Juneau, AK in August

STAY INVOLVED



Alaska Geospatial Council Technical Working Groups:

- Elevation
- Imagery
- Geoportal
- **Terrestrial Hydrography**
- Transportation
- Administrative Boundaries
- Parcels/Cadastral
- Geodetic Control
- **Wetlands**

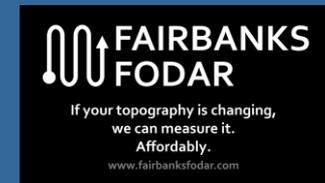
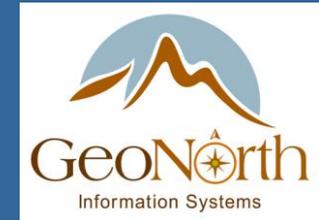
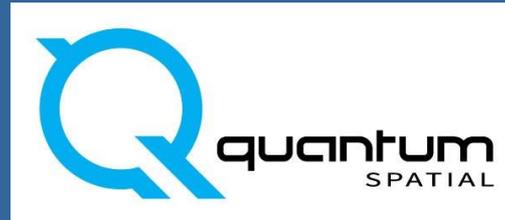
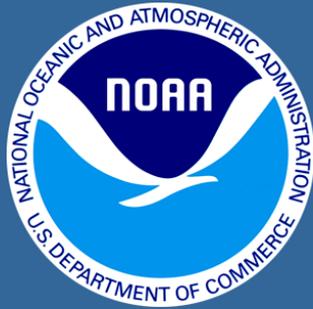


Volunteer to be a strategic plan contributor/reviewer

<http://agc.dnr.alaska.gov/>
Email: Ann.Johnson@alaska.gov

Contact me:
marta.kumle@alaska.gov

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